

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1. (Original): A rotary table system comprising:

a guide apparatus; and

a rotary table mounted on said guide apparatus;

- said guide apparatus including a ring-shaped integrated rail having no discontinuity in a travel direction thereof, and a plurality of guide blocks that are assembled to said rail from a direction of their surfaces opposing said rail;

wherein a surface of said rail opposite to a surface thereof opposing said guide blocks and an underside of said rotary table are joined together.
2. (Original): A rotary table system according to claim 1, wherein said rail has a substantially L-shaped cross-sectional configuration formed from a vertical portion and a horizontal portion extending from an upper end of said vertical portion in a radial direction of said rotary table.
3. (Currently Amended): A rotary table system according to claim 1 [[or 2]], further comprising:

a detecting mechanism that detects an amount of rotation of said rotary table;

wherein a tape scale that is to be detected by said detecting mechanism is provided on an outer peripheral surface of said rail.

4. (Currently Amended): A rotary table system according to ~~any one of claims 1 to 3~~ claim 1, further comprising:

mounting sections having mounting surfaces to which said guide blocks are secured, said mounting sections being equally spaced along a same circumference on a base that is a separate member from said rail and guide blocks.

5. (Currently Amended): A rotary table system according to ~~any one of claims 1 to 4~~ claim 1, wherein said rail has a plurality of rolling element rolling surfaces formed along the travel direction of said rail;

said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load rolling element rolling passages in cooperation with said rolling element rolling surfaces, said guide block body further having rolling element relief bores associated with said load rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said end plates each having rolling element direction change passages that form rolling element recirculation passages in cooperation with said load rolling element rolling passages and rolling element relief bores.

6. (New): A rotary table system according to claim 2, further comprising:
a detecting mechanism that detects an amount of rotation of said rotary table;
wherein a tape scale that is to be detected by said detecting mechanism is provided on an
outer peripheral surface of said rail.

7. (New): A rotary table system according to claim 2, further comprising:
- mounting sections having mounting surfaces to which said guide blocks are secured, said
mounting sections being equally spaced along a same circumference on a base that is a separate
member from said rail and guide blocks.

8. (New): A rotary table system according to claim 3, further comprising:
mounting sections having mounting surfaces to which said guide blocks are secured, said
mounting sections being equally spaced along a same circumference on a base that is a separate
member from said rail and guide blocks.

9. (New): A rotary table system according to claim 2, wherein said rail has a plurality
of rolling element rolling surfaces formed along the travel direction of said rail;
said guide blocks each including:
a guide block body having load rolling element rolling surfaces that form load rolling
element rolling passages in cooperation with said rolling element rolling surfaces, said guide block

body further having rolling element relief bores associated with said load rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said end plates each having rolling element direction change passages that form rolling element recirculation passages in cooperation with said load rolling element rolling passages and rolling element relief bores.

10. (New): A rotary table system according to claim 3, wherein said rail has a plurality of rolling element rolling surfaces formed along the travel direction of said rail;

said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load rolling element rolling passages in cooperation with said rolling element rolling surfaces, said guide block body further having rolling element relief bores associated with said load rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said end plates each having rolling element direction change passages that form rolling element recirculation passages in cooperation with said load rolling element rolling passages and rolling element relief bores.

11. (New): A rotary table system according to claim 4, wherein said rail has a plurality of rolling element rolling surfaces formed along the travel direction of said rail;

said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load rolling element rolling passages in cooperation with said rolling element rolling surfaces, said guide block body further having rolling element relief bores associated with said load rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said end plates each having rolling element direction change passages that form rolling element recirculation passages in cooperation with said load rolling element rolling passages and rolling element relief bores.